

# PROGRAMMABLE LOGIC ARRAY INTEGRATED CIRCUITS

## ABSTRACT OF THE DISCLOSURE

5 A programmable logic array integrated circuit  
has a number of programmable logic modules which are  
grouped together in a plurality of logic array blocks  
("LABs"). The LABs are arranged on the circuit in a two  
dimensional array. A conductor network is provided for  
interconnecting any logic module with any other logic  
10 module. In addition, adjacent or nearby logic modules  
are connectable to one another for such special purposes  
as providing a carry chain between logic modules and/or  
for connecting two or more modules together to provide  
more complex logic functions without having to make use  
15 of the general interconnection network. Another network  
of so-called fast or universal conductors is provided for  
distributing widely used logic signals such as clock and  
clear signals throughout the circuit. Multiplexers can  
be used in various ways to reduce the number of  
20 programmable interconnections required between signal  
conductors.